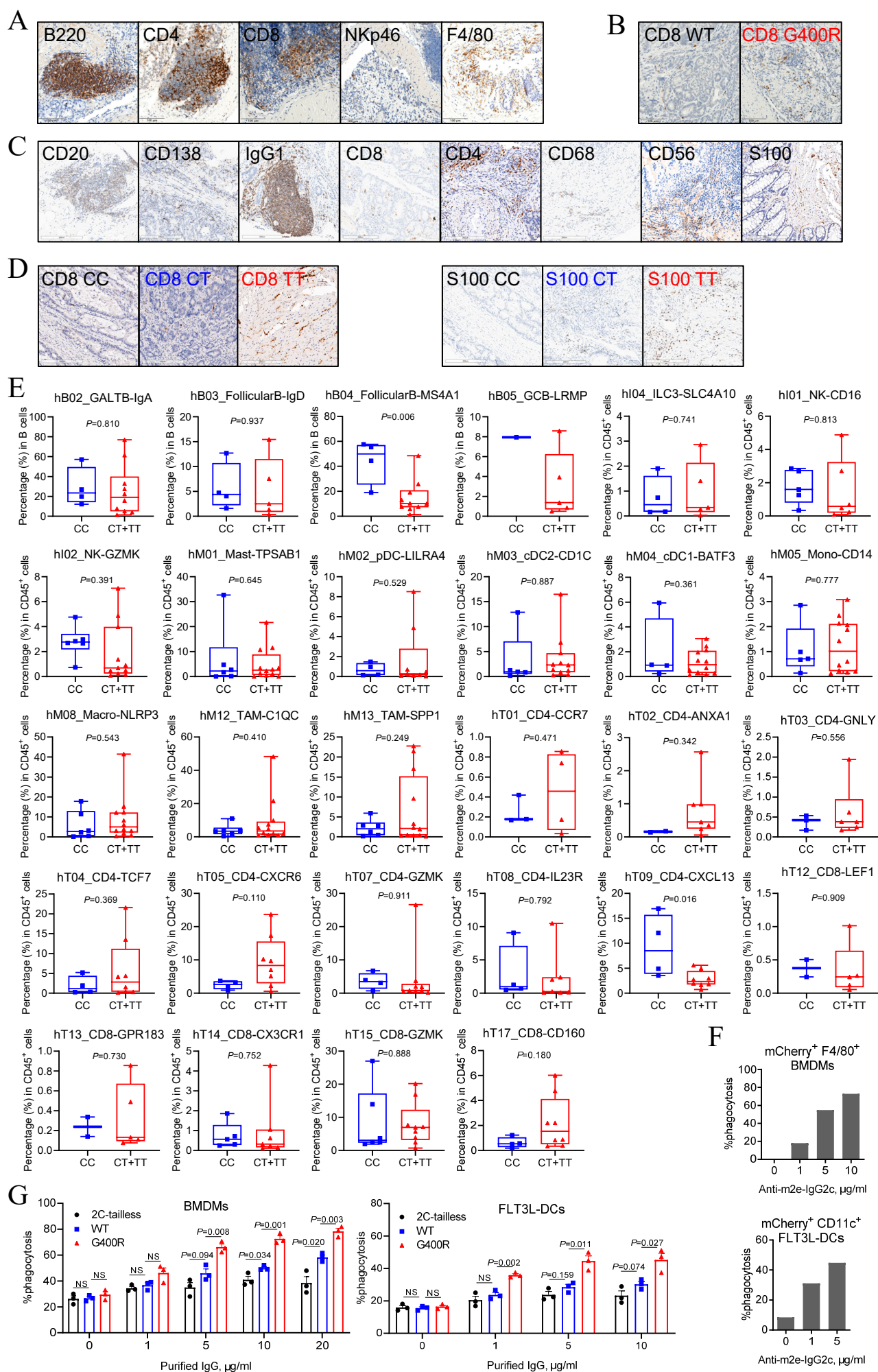




73 **Extended Data Fig. 7. Analyses of the immune profiles in the TME of CRC patients and**
74 **assessments of ADCP efficiency mediated by phagocytes**

75 (A) Representative IHC staining images of the colon tumor specimens from CAC-induced mice,
76 including B220 (B cells), CD4 (CD4⁺ T cells), CD8 (CD8⁺ T cells), NKp46 (NK cells) and F4/80
77 (macrophages). Scale bar, 100 μ m. (B) Representative microphotographs of CD8 stained tumor
78 specimens from CAC-induced WT and mIgG2c-G400R mice. Scale bar, 100 μ m. (C) Representative
79 images of colon specimens from CRC patients immunohistochemically stained with CD8 (CD8⁺ T
80 cells), CD4 (CD4⁺ T cells), CD56 (NK cells), CD68 (macrophages) and S100 (DCs). Scale bar, 200
81 μ m. (D) Representative microphotographs of CD8 and S100 stained colon tumor specimens from
82 WT, hIgG1-G396R heterozygous and homozygous CRC patients. Scale bar, 200 μ m. (E) Proportions
83 of B cell subtypes in total B cells, NK cell subtypes, myeloid cell subtypes and T cell subtypes in
84 total CD45⁺ cells revealed by sc-RNA seq. (F) Fractions of F4/80 and mCherry double positive
85 effector cells after co-culture with anti-M2e IgG2c antibody-coated LLC-m2e cells, determined by
86 flow cytometry. (G) Comparison of BMDMs and FLT3L-DCs mediated ADCP activities using
87 purified IgG, prepared from the anti-OVA serum of OVA-immunized mIgG2c-tailless, WT and
88 mIgG2c-G400R mice, detected by flow cytometry. Statistical significance was determined using an
89 unpaired two-tailed t-test (E, G). Mean $\pm$ SEM.